	Gas on Gas	Air on Air	Gas on Waste Gas	Air on Waste Gas
Pressures required for impressing velocity and velocity changes upon flowing gases	2 199	1 319	3 111	1 254
Cinder pockets			0 495	0 543
Necks 0.525-0.498=		0 027		
Chamber above checkerwork	0 462	0 498		
0.657-0.495=			0 162	
Checkerwork	0 049	0 047	0 072	0 052
Flues below checkerwork			0 916	0 570
0.590-0.512 =	0 078			
0.460-0.268=		0 192		
Fantails	0 512	0 268		
8 total between valves and ports, kg per	3 300	2 351	4 756	2 419
The friction losses = 7 in kg per in^2 between the valves and the ports are:				
Uptakes	0 360	0 300	0 411	0 274
Cinder pockets	0 129	0 144	0 147	0 144
Necks	0 129	0 144	0 147	0 144
Chamber above checkerwork	0 048	0 048	0 055	0 043
Checkerwork	1 802	1 987	2 064	1 808
Flues below checkerwork	0 553	0 548	0 632	0 554
Fantaiis	0 320	0 383	0 338	0 359
7 total between valves and ports, kg per m^2	3 341	3 554	3 794	3 326
Valve resistance 5 = kg per m^2	4.201	2 317	6.216	4.781
5 = velocity pressures between valves and	3 300	2 351	'4 756	2 419
7 = friction losses between valves and ports	3.341	3.554	3.794	3.326
Summation, kg per m^2 or mm of water . .	10.842	8.222 10.683	14.766	10.526
Chimney effect of checkerwork,	12.85		13.21	12.99
Chimney effect available for port velocity,	2 009	2 461		
Draft depression required at reversing			27.983	23.516